

NASA Langley Research Center has an inventory of software technologies available for use by, and sometimes licensing to commercial entities.

The Market Opportunities

In the course of completing its mission, NASA develops versatile design, structural, and flow analysis software. The software is then made available outside the Agency through a number of different mechanisms. It may be distributed as public domain software, licensed through patents and/or copyrights, or made available for use by commercial entities.

These software technologies are often readily adaptable for non-aerospace uses. NASA developed software has been used in a wide spectrum of manufacturing, research and development, and academic environments. In some cases, the initial code has been modified by others to become commercial products.

The Benefits

While availability of NASA developed software for use in any specific situation must be evaluated, there are many benefits. When you use software developed by NASA, you are using software that originated from world-class developers with state-of-the-art knowledge and facilities. NASA Software often sets the technical standards that others follow. Many codes now widely accepted and used by the aerospace industry originated at NASA.

Copies of public domain software or licenses for some software may be arranged after discussion/negotiation. This software can then be incorporated into existing commercial products, or new products may evolve. Along with licenses, NASA expertise is often made available to assist you in transitioning the software to a commercially viable form.

The Technology

NASA works with a diverse range of technologies. Software has been developed in many disciplines, but especially in the following categories:

- Computational Fluid Dynamics
- Acoustics



- Data Acquisition
- Structural Analysis and Design

Many of the codes have been designed to interface with other commercially available codes used widely in industry. Other codes are complete and function without any interface to commercial products.

A variety of different codes in the general areas indicated above are available. If you need software tools for a specific purpose, then call or write to the point of contact below in order to explore these questions.

Additional Information

To discuss in detail how these and other software tools can be made available to you, please contact:

Stuart E. Pendleton
NASA Langley Research Center
3 Langley Boulevard • Mail Stop 212
Hampton, VA 23681-2199
phone: (757) 864-2943 • fax: (757) 864-9190
email: s.e.pendleton@larc.nasa.gov